



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/719,397		12/12/2000	Hideyo Uwabata	001557 7818		
23850	7590	06/16/2004		EXAMINER		
	-	ATZ, QUINTOS,	TRAN, TRANG U			
1725 K STR SUITE 1000	,			ART UNIT PAPER NUMBER		
WASHINGT	ron, dc	20006		2614 NH		
				DATE MAILED: 06/16/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/719,397	UWABATA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Trang U. Tran	2614	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	ith the correspondence address -	5.8
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a eply within the statutory minimum of thiod will apply and will expire SIX (6) MOitute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communica BANDONED (35 U.S.C. § 133).	ation.
Status			
1)⊠ Responsive to communication(s) filed on 14	January 2004.		
	nis action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under			s is
Disposition of Claims			
4) ☐ Claim(s) 3-18,21-23 and 27-31 is/are pendin 4a) Of the above claim(s) is/are withdom 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 3-18,21-23 and 27-31 is/are rejecte 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Exami	ner.		
10) The drawing(s) filed on is/are: a) □ ad		•	
Applicant may not request that any objection to the		, ,	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	•	•	• •
Priority under 35 U.S.C. § 119			
a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a lie	ents have been received. ents have been received in A riority documents have beer eau (PCT Rule 17.2(a)).	Application No received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 		s)/Mail Date nformal Patent Application (PTO-152) 	

Page 2

Application/Control Number: 09/719,397

Art Unit: 2614

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 23, 2004 has been entered.

Response to Arguments

2. Applicant's arguments filed July 24, 2003 have been fully considered but they are not persuasive.

In re pages 18-19, applicants argue that, with respect to claims 22-24, Hackett et al differs from the present invention as follows:

- 1. No predetermined value for the luminance in a luminance change portion is shown in Fig. 4. Fig. 4 of Hackett et al appears to show only two (2) values of luminance.
- 2. The limitation in the last paragraph of claim 22 of the instant application may be interpreted to mean that "the part of the scanning line thus moves depending on the amount of the change in the luminance and the level of the luminance", as discussed on page 22, lines 3-5 of the specification. Hackett et al fails to disclose this feature.

Art Unit: 2614

3. Hackett et al fails to disclose the frequency domain emphasis circuit recited in claims 23-24 of the instant application.

In response, the examiner respectfully disagrees. As discussed in the last Final Office Action, with respect to item 1) above, predetermined value for the luminance in a luminance change portion is disclosed in column 2, lines 44-48 of Hackett et al. Hackett et al discloses in column 2, lines 44-48 that "these differences are then passed to a first comparator 521 and to a second comparator 522, respectively, where they are thresholded and converted to binary signals A and B". The claimed predetermined value for the luminance in a luminance change portion is anticipated by the threshold value of the first comparator 521 or the second comparator 522.

With respect to item 2) above, as discussed above, Hackett et al discloses in column 2, lines 44-48 that "these differences are then passed to a first comparator 521 and to a second comparator 522, respectively, where they are thresholded and converted to binary signals A and B". From the above passages, it is clear that the part of the scanning line thus moves of Hackett et al is depend on the amount of the change in the luminance (the threshold value of first comparator 521 or the second comparator 522) and the level of the luminance (the threshold value of first comparator 521 or the second comparator 522).

Additionally, Hackett et al discloses in column 2, lines 25-34 that "an example of a vertical cross-section through an image in show in Fig. 4, each line and point represents the amplitude of the video signal at one pixel on each 1-14 of the cross-section, it can be seen that in order to improve the display the scan on

Art Unit: 2614

lines 3, 7 and 9 should be deflected in direction indicated by the arrows". From the above passage, it is clear that the amplitude of the video signal at one pixel is the change in luminance level (brightness level) and lines 3, 7 and 9 are represent the transitions exist between high and low vertical frequency (luminance level) of the video signal.

With respect to item 3) above, Hackett et al discloses in col. 2, lines 48-56 that "Then they are combined in a logic circuit 53 to form an output control signal C. The video signal at the output of the first line delay 511 is fed to an amplifier or multiplier 54, respectively. The gain of this amplifier 54 is controlled by signal C. If C is "0", the gain of amplifier 54 is 1.0, if C is not "0", the gain is about 0.9 in order to reduce the brightness at its output 55. Signal C is also directed to a deflection circuit 56 which supplies a vertical deflection coil 57". The claimed "the frequency domain emphasis circuit" of claims 23-24 is anticipated by the logic circuit 53 of Hackett et al because the logic circuit 53 of Hackett et al emphasizes the whole frequency domain of the television.

In re page 20, applicants argue, with respect to claims 3, 21 and 27, that the cited references fail to teach, or suggest an arrangement for applying scanning line modulation in a luminance change portion to bi-directional scanning and sharing of the coil, thus, claim 3 is allowable over the cited references.

In response, the examiner respectfully disagrees, Watabe Junzo et al (JP Pub '309), teach that a monitoring device 1 drives the vertical deflection coil 6 by the vertical deflection circuit 5, and, thereby, forms the display screen with the application of the

Art Unit: 2614

technique of a bi-directional deviation while it drives the horizontal deflection coil 4 by the bi-directional deflection circuit 3 (Fig. 1, page 4, [0018-0020]). From the above passage, it is clear that Watabe Junzo et al indeed disclose the arrangement for applying scanning line modulation in a luminance change portion to bi-directional scanning and sharing of the coil as recited in claim 3.

In re page 20, applicants argue, with also respectfully submitted that claims 21 and 27 are patentable over the cited references for the same reason as that in claim 3.

In response, as discussed above with respect to claim 3 above, Hackett et al discloses all the limitations of claim 3 above.

In re page 20, applicants argue, claims 18, 23 and 31 are directed to scanning line modulation in a luminance change portion being combine with frequency domain emphasis. The cited references fail to teach or suggest such a combination of scanning line modulation in a luminance change portion with frequency domain emphasis and adjuster that adjusts the extracted frequency domain.

In response, as discussed above with respect to claims 3 and 23-24 above, Hackett et al and Watabe Junzo et al disclose all the limitations scanning line modulation in a luminance change portion being combine with frequency domain emphasis of claims 3 and 23-24 above.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Application/Control Number: 09/719,397 Page 6

Art Unit: 2614

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claim 23 is rejected under 35 U.S.C. 102(b) as being anticipated by Hackett et al (US Patent No. 5,396,157).

In considering claim 23, Hackett et al discloses all the claimed subject matter, note 1) the claimed a movement control circuit for producing a movement control signal for controlling the movement in the vertical direction of the scanning lines such that part of the scanning line having a luminance which is not less than a predetermined value in a luminance change portion in the vertical direction on the basis of a luminance signal moves farther apart from a part on the adjacent scanning line having a lower luminance than said predetermined value is met by the vertical cross-section (Fig. 4, col. 2, line 25 to col. 3, line 7), 2) the claimed a vertical velocity modulation coil for generating a magnetic field for modulating the scanning speed in the vertical direction of the electron bean on the basis of the movement control signal produced by said movement control circuit is met by the vertical deflection coil 57 (Fig. 5, col. 2, lines 35-56), 3) the claimed a frequency domain emphasis circuit for emphasizing a predetermined frequency domain of said movement control signal produced by said movement control circuit is met by the processing of Fig. 5 (Figs. 4-6, col. 2, line 25 to col. 3, line 7), 4) the claimed wherein said frequency domain emphasis circuit comprises an extraction circuit for extracting said predetermined frequency domain of said movement control signal produced by said movement control circuit is met by the first line delay circuit 511 and the second line delay circuit 512 (Fig. 5, col. 2, lines 35-44), 5) the claimed an adjuster for adjusting the signal in said frequency domain extracted by said extraction circuit is

Art Unit: 2614

met by the first comparator 521 and the second comparator 522 (Fig. 5, col. 2, lines 35-54), and 6) the claimed an adder for adding said movement control signal produced by said movement control circuit and the signal in said frequency domain adjusted by said adjuster together is met by the logic circuit 53 which output the control signal C directed to the deflection circuit 56 (Figs. 4-6, col. 2, line 25 to col. 3, line 7).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 3-18, 21-22 and 27-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hackett et al (US Patent No. 5,396,157) in view of Watabe Junzo et al (JP Publication No. 06-284309).

In considering claim 3, Hackett et al discloses all the claimed subject matter, note 1) the claimed a vertical deflection circuit for deflecting said electron beam in the vertical direction is met by the vertical deflection circuit 56 (Fig. 5, col. 2, lines 35-56), 2) the claimed a vertical velocity modulation circuit for modulating the scanning speed in the vertical direction of an electron beam for successively forming scanning lines in the horizontal direction on a screen is met by the processing of Fig. 5 (Figs. 4-6, col. 2, line 25 to col. 3, line 7), 3) the claimed wherein said vertical velocity modulation circuit comprises a parallel scanning circuit for outputting a parallel scanning signal for making the forward and backward scanning lines formed by said horizontal deflection circuit

Page 8

Art Unit: 2614

parallel is met by the first line delay circuit 511 and the second line delay circuit 512 (Fig. 5, col. 2, lines 35-44), 4) the claimed a movement control circuit for producing a movement control signal for controlling the movement in the vertical direction of the scanning lines such that a part of the scanning line having a luminance which is not less than a predetermined value in a luminance change portion in the vertical direction on the basis of a luminance signal moves farther apart from a part of the adjacent scanning line having a lower luminance than said predetermined value is met by the logic circuit 53 which output the control signal C directed to the deflection circuit 56 (Figs. 4-6, col. 2, line 25 to col. 3, line 7), 5) the claimed a synthesizing circuit for synthesizing the parallel scanning signal outputted by said parallel scanning circuit and the movement control signal produced by said movement control circuit is met by the logic circuit 53 which output the control signal C directed to the deflection circuit 56 (Figs. 4-6, col. 2, line 25 to col. 3, line 7), and 6) the claimed a vertical velocity modulation coil for generating a magnetic field for modulating the scanning speed in the vertical direction of the electron beam on the basis of a signal synthesized by said synthesizing circuit is met by the vertical deflection coil 57 (Fig. 5, col. 2, lines 35-56).

However, Hackett et al explicitly does not discloses the claimed a horizontal beam back and forth in the horizontal direction to form forward and backward scanning lines in the horizontal direction on a screen.

Watabe Junzo et al teach that a monitoring device 1 drives the vertical deflection coil 6 by the vertical deflection circuit 5, and, thereby, forms the display screen with the

Art Unit: 2614

application of the technique of a bi-directional deviation while it drives the horizontal deflection coil 4 by the bi-directional deflection circuit 3 (Fig. 1, page 4, [0018-0020]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the horizontal bi-directional deflection circuit as taught by Watabe Junzo et al into Hackett et al's system in order to improve the quality of the picture by switching the polarity of a modulation magnetic field according to a back-and-forth path to modulate a speed according to bi-directional deflection.

In considering claim 4, the claimed wherein said movement control circuit comprises a change portion detection circuit for detecting a luminance change portion in the vertical direction on the basis of the luminance signal, a movement distance output circuit for outputting as said movement control signal the distance of movement of the scanning line on the screen in the vertical direction in the luminance change portion detected by said change portion detection circuit on the basis of the luminance signal is met by the circuit of Fig. 5 (Figs. 4-6, col. 2, line 25 to col. 3, line 7) of Hackett et al, and the claimed a time axis reversion circuit for reversing the time axis of the movement control signal outputted by said movement distance output circuit in backward scanning by said horizontal deflection circuit is met by the time-axis inverter circuit 7 (Fig. 2, page 4, [0021] to page 5, [0023]) of Watabe Junzo et al.

In considering claim 5, the combination of Hackett et al and Watabe Junzo et al disclose all the limitations of the instant invention as discussed in claim 3 above, except for providing the claimed wherein said vertical velocity modulation circuit further comprises a clamping circuit for clamping the movement control signal produced by said

Art Unit: 2614

movement control circuit to a predetermined potential at predetermined timing. The capability of a clamping circuit for clamping the movement control signal is old and well known in the art. Therefore, the Official Notice is taken. It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the old and well known clamping circuit into the combination of Hackett et al and Watabe Junzo et al's system in order to improve the quality of the video signal by clamping the video signal to appropriate level.

In considering claim 6, the claimed wherein said vertical velocity modulation circuit further comprises an amplifier for amplifying the signal synthesized by said synthesizing circuit is met by, and a gain control circuit for controlling the gain of said amplifier is met by the amplifier 54 (Fig. 5, col. 2, lines 49-56).

In considering claim 7, the claimed wherein said gain control circuit controls the gain of said amplifier on the basis of the number of the scanning lines formed on the screen by said horizontal deflection circuit is met by the control signal C (Fig. 5, col. 2, lines 49-56) of Hackett et al.

In considering claim 8, the claimed wherein said gain control circuit controls the gain of said amplifier depending on the positions of the scanning lines formed on the screen by said horizontal deflection circuit is met by the control signal C (Fig. 5, col. 2, lines 49-56) of Hackett et al.

Claim 9 is rejected for the same reason as discussed in claim 3 and further the claimed wherein said a movement control circuit comprises: a movement distance output circuit for outputting the distance of movement on the screen of a part of the

Art Unit: 2614

scanning line to be an object as the movement control signal on the basis of the difference between the luminance of a part of the scanning line a predetermined number of horizontal scanning periods ahead of and the luminance of a part of the scanning line the predetermined number of horizontal scanning periods behind the part of the scanning line to be the object and the level of the luminance of the part of the scanning line to be the object such that a part of the scanning line having a luminance which is not less than a predetermined value in a luminance change portion in the vertical direction moves farther apart from a part of the adjacent scanning line having a lower luminance than said predetermined value is met by the vertical cross-section (Fig. 4, col. 2, line 25 to col. 3, line 7) of Hackett et al.

In considering claim 10, Hackett et al discloses all the claimed subject matter, note 1) the claimed wherein said movement distance output circuit comprises a difference calculation circuit for calculating the difference between the luminance of the part of the scanning line the predetermined number of horizontal scanning periods ahead of and the luminance of the part of the scanning line the predetermined number of horizontal scanning periods behind the part of the scanning line to be the object is met by the vertical cross-section (Fig. 4, col. 2, line 25 to col. 3, line 7) of Hackett et al, 2) the claimed a first signal output circuit for outputting a first movement distance signal on the basis of an output signal of said difference calculation circuit is met by the first line delay 511 (Fig. 5, col. 2, lines 35-56), 3) the claimed a second signal output circuit for outputting a second movement distance signal on the basis of the luminance of the part of the scanning line to be the object is met by the second line delay 512 (Fig. 5, col.

Art Unit: 2614

2, lines 35-56), and 4) the claimed a multiplication circuit for multiplying the first movement distance signal outputted from said first signal output circuit and the second movement distance signal outputted from said second signal output circuit together, and outputting the result of the multiplication as said movement control signal is met by the multiplier 54 (Fig. 5, col. 2, lines 35-56).

In considering claim 11, the claimed wherein said first signal output circuit sets the value of said first movement distance signal to zero when the value of the output signal of said difference calculation circuit is smaller than a predetermined value, and said second signal output circuit sets the value of said second movement distance signal to zero when the luminance of the part of said scanning line to be the object is smaller than the predetermined value is met by the first comparator 521, the second comparator 522 and the logic circuit 53 (Fig. 5, col. 2, line 35 to col. 3, line 7) of Hackett et al.

In considering claim 12, the claimed wherein the scanning line said predetermined number of horizontal scanning periods ahead of the part of the scanning line to be the object is the scanning line two horizontal scanning periods ahead of the part of the scanning line to be the object, and the scanning line said predetermined number of horizontal scanning periods behind the part of the scanning line to be the object is the scanning line two horizontal scanning periods behind the part of the scanning line to be the object is met by the vertical cross-section (Fig. 4, col. 2, line 25 to col. 3, line 7) of Hackett et al.

Art Unit: 2614

In considering claim 13, the claimed wherein the scanning line said predetermined number of horizontal scanning periods ahead of the part of the scanning line to be the object is the scanning line one horizontal scanning period ahead of the part of the scanning line to be the object, and the scanning line said predetermined number of horizontal scanning periods behind the part of the scanning line to be the object is the scanning line one horizontal scanning period behind the part of the scanning line to be the object is met by the vertical cross-section (Fig. 4, col. 2, line 25 to col. 3, line 7) of Hackett et al.

In considering claim 14, the claimed wherein said vertical velocity modulation circuit further comprises a movement distance limitation circuit for limiting the distance of movement on the screen of the part of the scanning line such that the positions of the adjacent scanning lines are not replaced with each other by the movement of the part of the scanning line is met by the circuit of Fig. 5 (Figs. 4-6, col. 2, line 25 to col. 3, line 7) of Hackett et al.

In considering claim 15, the claimed wherein said movement distance limitation circuit limits the movement control signal outputted from said movement distance output circuit to half when the luminance of the part of the scanning line to be the object and the luminance of the part of the scanning line two horizontal scanning periods behind the part of the scanning line to be the object are not less than the predetermined value, and the luminance of the part of the scanning line two horizontal scanning periods ahead of, the luminance of the part of the scanning line three horizontal scanning periods ahead of, and the luminance of the part of the scanning line three horizontal

Art Unit: 2614

scanning periods behind the part of said scanning line to be the object are less than the predetermined value, or when the luminance of the part of the scanning line to be the object and the luminance of the part of the scanning line two horizontal scanning periods ahead of the part of said scanning line to be the object are not less than the predetermined value, and the luminance of the part of the scanning line two horizontal scanning periods behind, the luminance of the part of the scanning line three horizontal scanning periods behind, and the luminance of the part of the scanning line three horizontal scanning periods ahead of the part of said scanning line to be the object are less than the predetermined value is met by the vertical cross-section (Fig. 4, col. 2, line 25 to col. 3, line 7) of Hackett et al.

In considering claim 16, Watabe Junzo et al discloses all the claimed subject matter, note 1) the claimed a cathode ray tube is met by the cathode ray tube 2 (Fig. 1, page 4, [0018-0021]), 2) the claimed an electron gun an electron gun provided in said cathode ray tube and having a metal case is met by the velocity modulation means (Fig. 1, page 4, [0015] – [0021]), and 3) the claimed wherein a vertical velocity modulation coil is disposed in a position departing from the periphery of said metal case of said electron gun and around said cathode ray tube for generating a magnetic field for modulating the scanning speed in the vertical direction of the electron beam on the basis of said movement control signal produced by said movement control circuit is met by the velocity modulation coil 4, 6 and 10 (Fig. 1, page 3, [0007] and page 4, [0015] – [0021]).

Art Unit: 2614

In considering claim 17, the claimed further comprising a deflection yoke disposed in the position departing from the periphery of said metal case of said electron gun and around said cathode ray tube, and constituting said horizontal deflection circuit and said vertical deflection circuit, said vertical velocity modulation coil being arranged inside said deflection yoke is met by the cathode ray tube 2 (Fig. 1, page 4, [0018-0021]) of Watabe Junzo et al.

Claim 18 is rejected for the same reason as discussed in claim 3 and Hackett et al further disclose 1) the claimed a frequency domain emphasis circuit for emphasizing a predetermined frequency domain of said movement control signal produced by said movement control circuit is met by the processing of Fig. 5 (Figs. 4-6, col. 2, line 25 to col. 3, line 7), 2) the claimed wherein said frequency domain emphasis circuit comprises an extraction circuit for extracting said predetermined frequency domain of said movement control signal produced by said movement control circuit is met by the first line delay circuit 511 and the second line delay circuit 512 (Fig. 5, col. 2, lines 35-44), 3) the claimed an adjuster for adjusting the signal in said frequency domain extracted by said extraction circuit is met by the first comparator 521 and the second comparator 522 (Fig. 5, col. 2, lines 35-54), and 4) the claimed an adder for adding said movement control signal produced by said movement control circuit and the signal in said frequency domain adjusted by said adjuster together is met by the logic circuit 53 which output the control signal C directed to the deflection circuit 56 (Figs. 4-6, col. 2, line 25 to col. 3, line 7).

Claim 21 is rejected for the same as reason as discussed in claim 3.

Application/Control Number: 09/719,397 Page 16

Art Unit: 2614

In considering claim 22, the claimed wherein said movement control circuit outputs the distance of movement on the screen of a part of the scanning line to be an object as said movement control signal on the basis of the difference between the luminance of a part of the scanning line a predetermined number of horizontal scanning periods ahead of and the luminance of a part of the scanning line the predetermined number of horizontal scanning periods behind the part of the scanning line to be the object and the level of the luminance of the part of the scanning line to be the object is met by the vertical cross-section (Fig. 4, col. 2, line 25 to col. 3, line 7 of Hackett et al).

Claims 27-29 are rejected for the same as reason as discussed in claims 3-5, respectively.

Claim 30 is rejected for the same as reason as discussed in claims 3 and 9.

Claim 31 is rejected for the same as reason as discussed in claims 3 and 18.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Trang U. Tran** whose telephone number is **(703) 305-0090.**

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **John W. Miller**, can be reached at **(703)** 305-4795.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

Art Unit: 2614

Page 17

(703) 872-9306 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 308-HELP.

TT June 7, 2004

THANGTRAN
PATENT EXAMINER